

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method for manufacturing a plasma display panel, comprising the steps of:

forming barrier ribs on a surface of an insulating substrate in order to separate a plurality of cells from one another;

applying a phosphor material in the form of paste to each of said cells by covering said a surface of said insulating substrate and side surfaces of said ribs with said phosphor material; and inspecting whether or not said phosphor material is properly applied to each of said cells prior to drying said phosphor material by radiating light onto a surface of said phosphor material ~~prior to drying said phosphor material~~ and observing a pattern of light reflected from each of said plurality of cells ~~in order to inspect whether a phosphor material is normally being applied to each of said plurality of cells.~~

2. (currently amended): The method for manufacturing a plasma display panel according to claim 1, wherein ~~the inspection step of inspecting whether a phosphor material is normally being applied to each of said plurality of cells~~ said observing step comprises the steps of:

capturing an image data of said ~~applied~~ phosphor material applied to each of said cells during said radiation of ~~while radiating~~ light onto said a surface of said applied phosphor

~~material in order to obtain image data indicative of said image of said applied phosphor material;~~

~~distinguishing said pattern ~~patterns of images each consisting of~~ light reflected from each of said plurality of cells from one another based on said image data; and~~

~~inspecting whether said phosphor material is normally being applied to each of said plurality of cells based on results obtained by distinguishing said patterns from one another in order to determine determining on the basis of said pattern whether or not a phosphor layer formed by said phosphor material applied to each of said cells will provide a proper shape after said drying process of said phosphor material will normally be formed.~~

3. (currently amended): The method for manufacturing a plasma display panel according to claim 2, wherein said determining step ~~the step of determining whether or not a phosphor layer formed by drying said phosphor material will normally be formed~~ is carried out such that based on whether an amount of ~~a~~ said phosphor material applied to each of said plurality of cells is suitable, excessive or small ~~is determined~~, whether or not ~~each~~ any one of said plurality of cells includes ~~one of a pinhole and or an abnormal substance is determined~~, and ~~further, whether or not said phosphor material has flowed~~ flows into a cell to which said phosphor material is not ~~to be yet applied so far is determined~~.

4. (currently amended): The method for manufacturing a plasma display panel according to claim 2, wherein the determining step ~~of determining whether or not a phosphor layer formed by drying said phosphor material will normally be formed~~ comprises the steps of:

~~detecting micro defects~~ a micro-defect defined as a defect included in ~~each~~ any one of

said plurality of cells; and

detecting ~~macro-defects~~ a macro-defect defined as a defect included in ~~each~~ any one of blocks each comprising a ~~consisting of~~ plurality of cells.

5. (currently amended): The method for manufacturing a plasma display panel according to claim 1, wherein the applying step of applying a phosphor material in the form of paste to a surface of said insulating substrate and side surfaces of said ribs is performed on a subsequent insulating substrate to be processed in a step subsequent to the step of manufacturing said insulating substrate, based on a result ~~results~~ obtained in the inspection by an inspecting step of inspecting whether a phosphor material is normally being applied to each of said plurality of cells performed for another plasma display panel manufactured before.

6. (currently amended): The method for manufacturing a plasma display panel according to claim 1, wherein said phosphor material includes ~~is employed as one of a plurality of types that have different emission phosphor materials corresponding to a plurality of colors to each other and said types of the phosphor material are separately applied to the cells in a predetermined order and one of said plurality of phosphor materials is excited and emits light of one of said plurality of colors and wherein the inspection step of for inspecting a said phosphor material is performed a plurality of times to allow the method to include a plurality of inspection steps corresponding to said plurality of colors of excited lights emitted from said plurality of phosphor materials, and wherein on and after the second inspection step, whether or not a phosphor layer will normally be formed is determined based on results obtained in a current~~

~~inspection step chosen out of said plurality of inspection steps and currently being performed,~~
~~and results obtained in the inspection steps performed before said current inspection step in such~~
a manner that said types of the phosphor material are respectively inspected after their
applications to the cells, and conditions of a type of the phosphor materials applied in the second
order or later to the cells is assessed not only by a result of an inspection performed after its
application but also by results of all inspections performed before its application.

7. (currently amended): The method for manufacturing a plasma display panel according to claim 1, wherein said light ~~is light having~~ has a wavelength that does not excite ~~range so as to be able to prevent said phosphor material from being excited and emitting to emit~~ light.

8. (currently amended): The method for manufacturing a plasma display panel according to claim 1, wherein the ~~step of applying~~ step is performed ~~a phosphor material is a step~~ ~~of applying said phosphor material to a surface of said insulating substrate and side surfaces of~~ ~~said ribs~~ by printing techniques.

9. (canceled).

10. (canceled).

11. (canceled).

12. (canceled).

13. (canceled).

14. (canceled).

15. (new): A method for manufacturing a plasma display panel, comprising the steps of:

forming barrier ribs on a surface of an insulating substrate in order to separate a plurality of cells from one another;

applying a phosphor material in the form of paste to each of said cells by covering said surface of said insulating substrate and side surfaces of said barrier ribs with said phosphor material; and

inspecting said phosphor material prior to drying said phosphor material by capturing image data of said applied phosphor material while radiating light onto a surface of said phosphor material, distinguishing a pattern of light reflected from each of said plurality of cells from one another based on said image data, and determining whether or not said phosphor material applied to each of said cells will provide a proper shape after said drying process based on a determination of whether an amount of said phosphor material applied to each of said cells is suitable, excessive or small.

16. (new): A method for manufacturing a plasma display panel, comprising the steps of:

forming barrier ribs on a surface of an insulating substrate in order to separate a plurality of cells from one another;

applying a phosphor material in the form of paste to a surface of said insulating substrate

and side surfaces of said ribs; and

radiating light onto a surface of said phosphor material prior to drying said phosphor material and observing a pattern of light reflected from each of said plurality of cells in order to inspect whether a phosphor material is normally being applied to each of said plurality of cells,

wherein the inspection step of inspecting whether a phosphor material is normally being applied to each of said plurality of cells comprises the steps of:

capturing an image of said applied phosphor material while radiating light onto a surface of said applied phosphor material in order to obtain image data indicative of said image of said applied phosphor material;

distinguishing patterns of images each consisting of light reflected from each of said plurality of cells from one another based on said image data; and

inspecting whether said phosphor material is normally being applied to each of said plurality of cells based on results obtained by distinguishing said patterns from one another in order to determine whether or not a phosphor layer formed by drying said phosphor material will normally be formed, and

wherein the step of determining whether or not a phosphor layer formed by drying said phosphor material will normally be formed is carried out such that whether an amount of a phosphor material applied to each of said plurality of cells is suitable, excessive or small is determined, whether or not each of said plurality of cells includes one of a pinhole and an abnormal substance is determined, and further, whether or not said phosphor material has flowed into a cell to which said phosphor material is not to be applied is determined.